

NAME

CLASS

SUBCLASS

FILING DATE

U.S. PATENT DOCUMENTS

DATE

DOCUMENT NUMBER

EXAMINER

INITIAL

	Í	NUMBER	1		02/100	SOBCLASS	IF	
07	AA	1 950 451	0/00/05				APPROPRIATE	
 	AB	4,859,451	8/22/89	Quay et al		-		
	AC	4,687,659	8/18/87	Quay				
	AD	4,885,363	12/5/89	Tweedle et al				
	AE	4,647,447	3/3/87	Gries et al				
	AF	4,957,939	9/18/90	Gries et al				
		4,963,344	10/16/90	Gries et al				
	AG	5,021,236	6/4/91	Gries et al				
	AH	4,983,376	1/8/91	Sherry				
- 4	AI	4,889,755	2/13/90	Lauffer et al				
- 	AJ	4,631,337	12/23/86	Tomalia et al;				
	AK				1			
	AL				 			
	AM							
	AN				1			
			FORE	IGN PATENT DOCUM	ENTS			
		DOCUMENT	FORE DATE	COUNTRY		CLIDCLASS		
<i>?</i> -		NUMBER	DATE	COUNTRY	ENTS CLASS	SUBCLASS	TRANSLATIO	ON
PT	AO	NUMBER 227421	DATE 10/26/90	COUNTRY		SUBCLASS	TRANSLATIO	ON
PT	AP	NUMBER 227421 WO89/05802	DATE			SUBCLASS	TRANSLATIO	ON
PT	AP AQ	NUMBER 227421	DATE 10/26/90	COUNTRY New Zealand World		SUBCLASS	TRANSLATIO	ON
PT	AP AQ AR	NUMBER 227421 WO89/05802 78995/87 0,230,893	10/26/90 6/29/89	COUNTRY New Zealand World Australia		SUBCLASS	TRANSLATIO	ON
PT	AP AQ	NUMBER 227421 WO89/05802 78995/87	10/26/90 6/29/89 3/31/88	COUNTRY New Zealand World Australia Europe		SUBCLASS	TRANSLATIO	ON
P7	AP AQ AR	NUMBER 227421 WO89/05802 78995/87 0,230,893	DATE 10/26/90 6/29/89 3/31/88 8/5/87 8/2/89	New Zealand World Australia Europe Europe		SUBCLASS	TRANSLATIO	ON
PT	AP AQ AR AS	NUMBER 227421 WO89/05802 78995/87 0,230,893 0,325,762	10/26/90 6/29/89 3/31/88 8/5/87 8/2/89 2/21/91	COUNTRY New Zealand World Australia Europe Europe Australia		SUBCLASS	TRANSLATIO	ON
PT	AP AQ AR AS AT	NUMBER 227421 WO89/05802 78995/87 0,230,893 0,325,762 61073/90	DATE 10/26/90 6/29/89 3/31/88 8/5/87 8/2/89 2/21/91 9/21/89	COUNTRY New Zealand World Australia Europe Europe Australia Australia		SUBCLASS	TRANSLATIO	ON
PT	AP AQ AR AS AT AU	NUMBER 227421 WO89/05802 78995/87 0,230,893 0,325,762 61073/90 31485/89	10/26/90 6/29/89 3/31/88 8/5/87 8/2/89 2/21/91	COUNTRY New Zealand World Australia Europe Europe Australia		SUBCLASS	TRANSLATIO	ON

		OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)
PT.	AAA	Villringer et al., "Dynamic Imaging with Lanthanide Chelates in Normal Brain: Contrast Due to Magnetic Susceptibility Effects", Magnetic Resonance in Medicine. 6. 164 - 174 (1988)
	AAB	Shehadi, "Contrast Media Adverse Reactions: Occurrence, Recurrence, and Distribution Patterns", Diagnostic Radiology, Vol. 143, No. 1, pp. 11 - 17 (Ann 1982)
	AAC	Bettmann, "Angiographic Contrast Agents: Conventional and New Media Compared". AJE. 139, pp. 787-794 (Oct. 1982)
	AAD	Bettmann et al., "Recent Advances in Contrast Agents", Radiologic Clinics of North America. Vol. 24, No. 3, pp. 347 - 357 (Sept. 1986)
	AAE	Wedeking et al., "Comparison of the Biodistribution of ¹⁵³ Gd-Labeled Gd(DTPA)2-, Gd(DOTA)" and Gd(Acetate)n in Mice", Mud. Med. Biol., Vol. 15, No. 4. nn. 395-402 (1988)
	AAF	I weedle et al., "Reaction of Gadolinium Chelates with Endogenously Available Tons". Magnetic Resonance Imaging. Vol. 9. pp. 409-415 (1991)
	AAG	Tweedle, "Work in Progress Toward Nonionic Macrocyclic Gadolinium(III) Complexes", in Contrast and Contrast Agents in Magnetic Resonance Imaging, edited by P. A. Rink, European Workshop on Magnetic Resonance in Medicine. pp. 65 - 73 (1989)
<u> </u>	ААН	Brechbiel et at., "Synthesis of I.(p-Isothiocyanatobenzyl) Derivatives of DTPA and EDTA. Antibody Labeling and Tumor-Imaging Studies". Inorg. Chem. 25, pp. 2772, 2781 (1986)
17_	_ IAAI	Hoey et al., "Chemistry of X-ray Contrast Media", Handbook of Experimental Pharmpcology, p. 23 - 125 (1984)

2	

		<u> </u>
		OTHER PROR ART (Including Author, Title, Date, Pertinent Pages, Etc.)
	AAJ	Wedeking & al., "Biodistribution and Excretion of New Gd-Complexes in Mise" - 201 and 10 dis Tr
Pr		Wedeking Gal., "Biodistribution and Excretion of New Gd-Complexes in Mice", p. 801 and "Multi-Tissue Pharmagakinetic Evaluation of MRI Contrast Agents; p. 802, Society of Magnetic Resonance in Medicine, 8th Annual Meeting, The RAI Consrescentrum. Amsterdam. The Netherlands (Aug. 12 - 18. 1989) Cavagna et al., "Biliary Agents: New Formulations" International Science of Cavagna et al., "Biliary Agents: New Formulations" International Science of Cavagna et al., "Biliary Agents: New Formulations" International Science of Cavagna et al., "Biliary Agents: New Formulations" International Science of Cavagna et al., "Biliary Agents: New Formulations" International Science of Cavagna et al., "Biliary Agents: New Formulations" International Science of Cavagna et al., "Biliary Agents: New Formulations" International Science of Cavagna et al., "Biliary Agents: New Formulations" International Science of Cavagna et al., "Biliary Agents: New Formulations" International Science of Cavagna et al., "Biliary Agents: New Formulations" International Science of Cavagna et al., "Biliary Agents: New Formulations" International Science of Cavagna et al., "Biliary Agents: New Formulations" International Science of Cavagna et al., "Biliary Agents: New Formulations" International Science of Cavagna et al., "Biliary Agents: New Formulations" International Science of Cavagna et al., "Biliary Agents: New Formulations" International Science of Cavagna et al., "Biliary Agents: New Formulations" International Science of Cavagna et al., "Biliary Agents: New Formulations" International Science of Cavagna et al., "Biliary Agents: New Formulations" International Science of Cavagna et al., "Biliary Agents: New Formulations" International Science of Cavagna et al., "Biliary Agents" International Science of Cavagna et al.,
U	AAK	Cavagna et al., "Biliary Agents: New Formulations", International Symposium & Course, Liver Imaging - Present
L //		
01	AAL	Broan et at., "Structure and solution stability of indium and gallium complexes of 1,4,7-triazacyclononanetriacetate
	ĺ	and yttrium complexes of 1.4.7.10 tetra aggregated and are aggregated and other complexes of 1.4.7.10 tetra aggregated and 0.4.10 tetra aggregated and 0.4.1
1/	Ĺ	and yttrium complexes of 1,4,7,10-tetra-azacyclododecanetetracetate and related ligands", J. Chem. Soc., Perkin Trans. 2.No. I. pp. 87-99(1991)
\mathcal{N}	AAM	Dischino et al., "Synthesis of Nonionic Gadolinium Chelates Useful as Contrast Agents for Magnetic Resonance Imaging". Inorganic Chemistry, Vol. 30, No. 6, p. 1265, 1260 (1991)
11/00		
- 7	AAN	Society of Magnetic Resonance in Medicine, Book of Abstracts, 8th Annual Meeting, August 12 - 18, 1989
,,		Medicine, Book of Abstracts, 8th Annual Meeting, August 12 - 18, 1989

Sheet 2 of 2

EXAMINER ()	DATE CONGINERS
	DATE CONSIDERED Slot
* EXAMINER: Initial if reference considered, whether or not citation is in conformance and not considered. Include copy of this form with next communication.	8/
conformance and not considered. Include copy of this form with next comm	unication to applicant.

USCOMM-DC 80-3995